

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

SOPREMA, Inc. 310 Quadral Drive Wadsworth, OH 44281

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: SOPREMA Waterproofing Systems

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 14-0715.02 and consists of pages 1 through 74. The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Waterproofing Systems

Material: SBS

Deck Type: Concrete, Steel, Lightweight Concrete

Maximum Design Pressure: -572.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

		I ABLE			
Test Product					
Product	Dimensions	Specification	Description		
Colvent TG	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen		
			membrane with 1" wide factory applied heat		
			weldable strips on back side.		
Colvent 180 TG	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced, modified		
			bitumen membrane with 1" wide factory applied		
			heat weldable strips on back side.		
Colvent Flam TG	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen		
			membrane with a burn-off film underside and a		
			plastic film surface.		
Colvent Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified		
TG			bitumen membrane with a burn-off film		
			underside and a plastic film surface. Applied by		
			heat welding.		
Colvent SA	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen		
			membrane with 1" wide factory applied self-		
T1 . 1	2011 401 (11/	A CEN A D (1 (2)	adhering strips on back side		
Elastophene	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen		
Sanded			membrane sanded on both sides. Applied in hot		
C-1-1 C1-1	20!! 40! (11/)	ACTM D(1/2	asphalt, cold adhesive or ribbon stripping.		
Colphene Sanded	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen		
			membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.		
Elastophene	39" x 33' (1sq.)	ASTM D6163	Fiberglass reinforced modified bitumen		
Sanded 3.0	39 x 33 (1sq.)	ASTNI D0103	membrane sanded on both sides. Applied in hot		
Sanded 5.0			asphalt, cold adhesive or ribbon stripped.		
Elastophene PS	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane		
Liustophene 15	37 K 17 (172 Sq.)	7101W D0103	with a plastic burn-off film for heat weld		
			bonding to the top side. Applied in hot asphalt,		
			cold adhesive or ribbon stripping.		
Elastophene PS 3.0	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane		
	(-,,-)		with a plastic burn-off film for heat weld		
			bonding to the top side. Applied in hot asphalt,		
			cold adhesive or ribbon stripping.		
			11 5		



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		Test	Product
Product	Dimensions	Specification	Description
Elastophene SP 2.2	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene SP 2.2	39" x 49' (1½ sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Elastophene SP 3.0	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding.
Colphene SP 3.0	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding.
Elastophene Flam	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Elastophene Flam 2.2	39" x 49' (1½ sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Sopralene 180 Sanded 2.2	39" x 49' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene 180 Sanded	39" x 49' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Colphene 180 Sanded	39" x 49' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopralene 180 PS	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene 180 PS	39" x 48' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.



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		Test	Product
Product	Dimensions	Specification	Description
Sopralene 180 PS 2.2	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the top and sanded on the bottom.
Colphene 180 PS	39" x 48' (1½ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Elastophene Flam LS FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam FR GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Elastophene Flam FR+ GR	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Sopralene 180 Sanded	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Sopralene 250 Sanded	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.



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		Test	Product
Product	Dimensions	Specification	Description
Sopralene 180 SP 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene 180 SP 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene 180 SP 3.0	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding.
Sopralene 250 SP	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding.
Soprafix	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides.
Soprafix Base 622	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides.
Soprafix Cap FR-651	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants and a plastic burn-off film on the bottom and mineral granules on the top. Applied in cold adhesive or by heat welding.
Sopralene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film, used as a base/ply. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film, used as a base/ply. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 250	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).



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		Test	Product
Product	Dimensions	Specification	Description
Sopralene 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Colphene 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn- off film).
Sopralene 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Colphene 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn- off film).
Sopralene Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180 GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 180 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn- off film).



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		Test	Product
Product	Dimensions	Specification	Description
Sopralene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Colphene Flam 250 FR GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 180 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Sopralene Flam 250 FR+ GR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Soprastar Flam	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding.
Soprastar Stick	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced SBS modified bitumen membrane with a release film covered self-adhering bottom side and a reflective white top surface.
Sopralene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Colphene Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a sanded top.
Sopralene Flam Antirock	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded underside and surfaced with colored granules.
Sopralene Flam Stick	39" x 33' (1 sq.)	ASTM D6164	Self-adhered, polyester reinforced membrane with a release film on the bottom and a plastic burn-off film on the top.
Elastophene Stick FR GR	39" x 33' (1 sq.)	ASTM D6163	Self-adhered, fire-rated, granule surfaced, fiberglass reinforced membranes.



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		Test	Product
Product	Dimensions	Specification	Description
Sopra G	39" x 108'	ASTM D4601	Fiberglass reinforced oxidized asphalt base sheet
	(3.5 sq.)		for bonding or mechanically attaching to
	17		substrate. For use as a base/ply sheet only.
Modified Sopra G	39" x 108'	ASTM D4601	Fiberglass reinforced modified asphalt base sheet
	(3.5 sq.)		for bonding or mechanically attaching to
			substrate. For use as a base/ply sheet only.
Soprabase	39" x 99' (3 sq.)	ASTM D4601	Oxidized asphalt, polyester reinforced, sand-
			surface base sheet. For use as a base/ply sheet
0 1 0	202 (52 (2	ACTM DACOL	only.
Soprabase S	39" x 65' (2 sq.)	ASTM D4601	SBS modified bitumen, polyester reinforced,
			sand-surfaced base sheet. For use as a base/ply
Soprabase TG	36" x 65' (2 sq.)	ASTM D4601	sheet only. SBS modified bitumen, polyester reinforced,
Soprabase 10	30 X 03 (2 sq.)	A51W D-001	sand-surfaced base sheet. For use as a base/ply
			sheet only.
Elastophene HS	39" x 66' (2 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen
•	. 1/		membrane with fire retardants and sanded on
			both sides. Applied in hot asphalt, cold adhesive
			or ribbon stripping.
Sopra IV	36" x 180' (5 sq.)	ASTM D2178	Type IV, fiberglass reinforced, smooth surfaced
			ply sheet used in multi-ply systems and complies
			with ASTM and UL Standards. Applied in hot
C VII	2(22 1902 (5)	A CTM D2170	asphalt or cold adhesive.
Sopra VI	36" x 180' (5 sq.)	ASTM D2178	Type IV, fiberglass reinforced, smooth surfaced
			ply sheet used in multi-ply systems and complies with ASTM and UL Standards. Applied in hot
			asphalt or cold adhesive.
Elastophene HD	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen
Elwstophone 112	(1 54.)	1101111 20102	membrane sanded on both sides. Applied in hot
			asphalt or cold adhesive.
Soprastar Sanded	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen
			membrane with a highly reflective reinforcement
			film on top and sanded on the bottom.
Sopralene Flam	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified
180 GR 3.5			bitumen membrane with colored granules on top
Convolono Elom	20" v 22' (1 aa)	A CTM D6164	and film on the bottom.
Sopralene Flam 180 FR GR 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with colored granules on top
100 FR GR 5.5			and film on the bottom.
Elastocol 500	various	ASTM D41	Asphalt primer.
			•
Elastocol Stick	various	Proprietary	Polymer based primer.
ALSAN Flashing [™]	1.25 gallon pail or	Proprietary	One part polyurethane/bitumen resin, moisture
_	3.75 gallon pail	-	cure compound for use as a flashing component.



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		Test	Product
Product	Dimensions	Specification	Description
Soprawalk	39" x 26' (3/4 sq.)	Proprietary	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and mineral granules on the top. Applied by hot asphalt, cold adhesive or ribbon stripping.
Sopradrain Eco-Vent WR		Proprietary	Polypropylene roof drain.
Sopradrain Eco-2 WR		Proprietary	Polypropylene roof drain.
Sopramastic SP-1	5 gallon pail, 55 gallon	ASTM C920, Type S, Grade NS, Class 50	A solvent free sealant.
High Velocity® Membrane Adhesive II (HVMA-II)	1500 ml cartridges	Proprietary	Two part elastomeric urethane adhesive.
Duotack	5 gallon pail, 55 gallon	Proprietary	Two part elastomeric urethane foam adhesive.
FM Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
FM Adhesive (VOC)	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
COLPLY Adhesive	5 gallon pail or 55 gallon drum	Proprietary	Polymer modified cold process membrane adhesive.
COLPLY Modified Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.
Soprastar Adhesive	5 gallon pail, 55 gallon drum or 350 gallon tote	Proprietary	Elastomeric bitumen based cold adhesive.



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APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
STYROFOAM High Load 60 Insulation	Extruded Polystyrene Insulation, Type VII	The Dow Chemical Co.
$STYROFOAM^{TM}$ PLAZAMATE TM	Extruded Polystyrene Insulation, Type VII	The Dow Chemical Co.
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
Ultra-Max	Polyisocyanurate foam insulation	RMax Operating, LLC
Sopra-ISO x, Sopra-ISO r, Sopra-ISO s	Polyisocyanurate foam insulation	SOPREMA, Inc.
M-Shield	Polyisocyanurate foam insulation	SOPREMA, Inc.
Sopraboard	Mineral fortified asphaltic cored coverboard	SOPREMA, Inc.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC



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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	SOPREMA #14 Fasteners	Fasteners for membrane or insulation attachment to wood, steel or concrete decks.	Various	SOPREMÁ, Inc.
2.	SOPREMA #14 MP Fastener	Insulation fastener for wood, steel and concrete.	Various	SOPREMA, Inc.
3.	SOPREMA #15 HD Fastener	Insulation and membrane fasteners	Various	SOPREMA, Inc.
4.	SOPREMA 2" Seam Plate	Stress plate	2" diameter	SOPREMA, Inc.
5.	SOPREMA 2.4" Seam Plate	Galvalume steel stress plate	2.4" Round	SOPREMA, Inc.
6.	SOPREMA 3" Round Insulation Plate	Stress plate	3" diameter	SOPREMA, Inc.
7.		Base ply fastening systems for lightweight concrete decks	2.7" head x 1.7" long	SOPREMA, Inc.
8.		Galvanized fastener for base sheet attachment for gypsum and lightweight concrete.	1.125" thick	OMG, Inc.
9.	OMG Heavy Duty	Insulation fastener for wood, steel and concrete.	Various	OMG, Inc.
10.	OMG 3" Galvalume Steel Plates	Galvalume stress plate.	3" round	OMG, Inc.
11.	Dekfast Galvalume Steel Hex Plates	Galvalume steel plate	2 ⁷ / ₈ " x 3 ¹ / ₄ "	SFS Intec, Inc.
12.	Dekfast Galvalume Steel 3" Round plates	Galvalume steel plate.	3" round	SFS Intec, Inc.
13.	Dekfast 14	Insulation fastener	Various	SFS Intec, Inc.
14.	FM-90	Base ply fastening systems for	2.7" head x	Altenloh, Brinck &
		lightweight concrete decks	1.7" long	Co. U.S., Inc.
15.	Trufast 3" Metal Insulation Plates	Galvalume steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
16.	Trufast #14 Stainless Steel HD Fasteners	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
17.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
18.	Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete.	Various	Altenloh, Brinck & Co. U.S., Inc.
19.	Trufast 2" Barbed Metal Seam Plate	Stress plate	2" diameter	Altenloh, Brinck & Co. U.S., Inc.
20.	Trufast 2.4" Barbed Metal Seam Plate	Galvalume steel stress plate	2.4" Round	Altenloh, Brinck & Co. U.S., Inc.



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APPROVED SURFACING/COATING OPTIONS:

TABLE 4

System Number	Manufacturer	Application
1.	Generic	Gravel applied at 40lbs.bs/sq., adhered with flood coat of asphalt at 60 lbs./sq.
2.	Generic	Slag applied at 300 lbs./sq., adhered with flood coat of asphalt at 60 lbs./sq.
3.	SOPREMA, Inc.	Gravel applied at 400 lbs./sq., adhered with COLPLY Adhesive, FM Adhesive, FM Adhesive (VOC), COLPLY Modified Adhesive or Soprastar Adhesive at 4 gal./sq.
4.	Karnak Corporation	Karnak #97 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal./sq.
5.	SOPREMA, Inc.	Cural Aluminizer applied at an application rate of 2 gal./sq.
6.	Thermo Manufacturing Systems, LLC	Super Prep Roof Coating applied in two coats at an application rate of 1.5 gal./sq./coat.
7.	Quest Construction Products LLC dba United Coatings	Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq., and one finish coat at a rate of 1.5 gal./sq.
8.	Insulating Coatings Corporation	Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat.
	Henry Company	HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat.
9.	National Coating Corp.	Acryshield [®] A500 applied in two coats at an application rate of 1 gal./sq./coat.
10.	Generic	Semi-ceramic coated colored granules.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	Dimensions	Test Specification	Product <u>Description</u>	<u>Manufacturer</u>
Exterior Ceramic Tiles	12" x 12" x ½"		Ceramic plaza deck walking tiles, 5% water absorption max.	Generic
Portland Cement	Various	ANSI A118.1	A thin-set Portland based mortar formulated for ceramic tile installation.	Generic
Concrete Pavers	12" x 12" x 1"	ASTM C936	high density concrete pavers	Generic
Wausau Lok-Down Paver	24" x 24" x 2"	ASTM C936	8000 psi Min. Compressive strength, 5% water absorption	Wausau Tile, Inc.
Lok-Down Tab	Base: 6.5" square plate Top: 5.8" square plate	Proprietary	SBR rubber tab used to support pavers to stand.	Wausau Tile, Inc.
Terra Stand Pedestal	5" round core	Proprietary	Copolymer polypropylene stand.	Wausau Tile, Inc.

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EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Test Identifier	Date
Factory Mutual Research Corp.	FM 4470	1W8A1.AM	07/15/93
•	FM 4470	1Z3A6.AM	04/27/95
	FM 4470	2D0A0.AM	08/15/97
	FM 4470	2B8A4. AM	07/02/97
	FM 4470	1D7A4.AM	11/09/98
	FM 4470	3026028	05/25/06
	FM 4470	3028631	08/09/07
	FM 4470	3029098	10/25/07
	FM 4470	3025185	05/22/07
	FM 4470	3017614	02/27/06
	FM 4470	3023749	09/28/06
	FM 4454	3022038	04/05/06
	FM 4470	3045101	11/05/12
	FM 4470	3002351	02/28/03
	FM 4470	797-07582-267	08/15/12
	FM 4470	797-03385-267	11/05/12
	FM 4470	RR201064	05/01/15
	FM 4470	3044801	02/27/12
	FM 4470	3049322	01/17/14
	FM 4470	3045734	04/04/12
	FM 4470	3024594	05/19/06
Underwriters Laboratories, Inc.	UL 790	R11436	06/18/13
Dynatech Engineering Corp.	TAS 114	10.94.27	10/27/94
	TAS 114	2491-04.95	01/04/95
Exterior Research & Design, LLC	TAS 114	2003.02.97-1	02/15/97
	TAS 114	2003-2.04.97-1	04/15/97
	TAS 114	2002.07.97-1	08/15/97
	TAS 114	2755.09.02	10/19/02
	TAS 114	2761.09.03	09/02/03
	TAS 114	2761.10.03-2	10/03/03
	TAS 114	2760.12.04-R1	12/23/04
	TAS 114	2777.09.05-R2	04/18/07
Trinity ERD	ASTM D6163	S6740.11.07	11/02/07
	Physical Properties	S10950.04.10	04/06/10
	ASTM D4798 & TAS 110	S11440.06.10	06/01/10
	ASTM D6164	S11440.01.11-R1	06/07/12
	ASTM D2178	S11440.11.10-4	11/17/10
	ASTM D4601	S11440.11.10-3-R2	08/26/14
	ASTM D6163	S11440.12.10-1-R1	06/07/12
	ASTM D6162	S32700.12.10-R2	07/07/14
	ASTM D6163	S35860.09.12-R1	03/14/13
	ASTM D2178	S35860.12.11-1	12/12/11
	ASTM D4601	S35860.12.11-2	12/12/11
	ASTM D6163	S35860.05.12-1-R2	03/14/13
	ASTM D6164	S35860.05.12-2-R2	03/14/13
	ASTM D6164	S35860.05.12-3-R1	03/14/13



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Test Agency	Test Name/Report	Test Identifier	Date
Trinity ERD	TAS 114	S35010.10.10-R1	08/26/14
	TAS 114	S47170.08.14-1	08/25/14
	TAS 114	S47300.08.14-1	08/19/14
	TAS 114	S47300.08.14-2	08/19/14
	TAS 114	SC5190.08.14	08/19/14
	ASTM D6163	S43400.08.14-4	08/26/14
	ASTM D6163	S43400.08.14-5	08/26/14
	ASTM D6164	S43400.08.14-6	08/26/14
	ASTM D6164	S43400.08.14-7	08/26/14
	ASTM D6164	S43400.09.14-9	09/02/14
	Physical Properties	S45890.09.14	09/02/14
	ASTM D6164	S44110.08.14-5	08/29/14
	ASTM D6164	S35860.05.12-2-R3	08/29/14
	ASTM D6506	S45010.02.14	02/07/14
	ASTM D6162	S32700.12.10-R2	07/07/14
	ASTM D6164	S44220.09.14-7C	09/02/14
	ASTM D6164	S44110.01.15-4A-R3	05/01/15
	TAS 117 (B)	S32840.06.10-R1	12/11/14
IRT of S. Florida, Inc.	TAS 114	01-002	01/21/01
ITS / Warnock Hersey	ASTM D5147		05/27/93
PRI Construction Materials	ASTM D1644/D2196	SOP-049-02-01	05/31/12
Technologies, LLC	ASTM D4601	SOP-043-02-01	02/27/12
	ASTM D4601	SOP-042-02-01	02/27/12
	ASTM D2178	SOP-041-02-01	02/27/12
	ASTM D2178	SOP-040-02-01	02/27/12
	TAS-138	SOP-010-02-01.03	07/26/11
	ASTM D3019	SOP-050-02-01	03/04/13
	Physical Properties	ADCO-001-02-01	06/16/13
Atlantic & Caribbean Roof Consulting	TAS 114	ACRC# 08-0359	06/20/08
Intertek Architectrural Testing	Physical Properties	F0856.01-106-18	05/13/16



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APPROVED APPLICATIONS:

Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type A(1): Membrane adhered directly to primed concrete deck. Insulation adhered

under surfacing for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Substrate Preparation: All surfaces must be dry, smooth, free of depressions, voids and protrusions,

and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Primed with ASTM D 41 primer applied to top of composite board or top of

cover board in insulation assembly.

Base/Ply Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene

SP 2.2, Colphene SP 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5,

Sopralene Flam 250 or Sopralene 250 SP, torch-applied.

Membrane Elastophene Flam LS FR GR, Elastophene Flam FR GR, Elastophene Flam

FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or Sopralene Flam

250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water maybe maintained for a period longer than 24 hours if

required.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

STYROFOAM High Load 60 Insulation, STYROFOAMTM PLAZAMATETM

Minimum 1.5" thick N/A N/A

Note: All layers of insulation shall be adhered with Duotack adhesive beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation as the final membrane substrate.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed

shall be corrected.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12"

and minimum ½" thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable

Building Code.

Maximum Design

Pressure: -255 psf. (See General Limitation #9.)

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SBS **Membrane Type:**

Deck Type 3I: Concrete Decks, Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

Concrete Paver Finish over Membrane. System Type A(2):

All General and System Limitations apply.

All surfaces must be dry, smooth, free of depressions, voids and protrusions, **Substrate** and clean and free of any non-compatible curing compounds, foam release **Preparation:**

agents and other surface contaminants.

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied to deck at a rate

of $100-150 \text{ ft}^2/\text{gal}$.

Base Sheet: One or more plies of Sopralene Flam 180, Colphene Flam 180 or Sopralene

Flam 250, torch-applied according to manufacturer's application instruction.

Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Membrane:

Colphene Flam 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Soprastar Flam torch-applied according to manufacturer's application

instruction.

Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water maybe maintained for a period longer than 24 hours if

required.

Contractor and a representative of the membrane manufacturer shall inspect the **Inspection:**

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Insulation Layer Insulation Fasteners Fastener

Density/ft² (Table 3)

STYROFOAM High Load 60 Insulation, STYROFOAMTM PLAZAMATETM

Minimum 1.5" thick N/A

Note: All layers of insulation shall be adhered with Duotack adhesive beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation as the final membrane substrate.

Surfacing: Concrete pavers (24" x 24" x 1.5" thick), 4000 psi minimum shall be embedded

> into mud-set Portland Cement applied with a 1/4" minimum square notched trowel. Pavers should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with

applicable Building Code.

Maximum Design

-255 psf. (See General Limitation #9) **Pressure:**



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Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type A(3): Membrane adhered directly to primed concrete deck. Insulation adhered

under surfacing for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Substrate Preparation: All surfaces must be dry, smooth, free of depressions, voids and protrusions,

and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Concrete shall be primed with ASTM D 41 primer applied to top of

composite board or top of cover board in insulation assembly.

Base/Ply Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene

SP 2.2, Colphene SP 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5,

Sopralene Flam 250 or Sopralene 250 SP, torch-applied.

Membrane Elastophene Flam LS FR GR, Elastophene Flam FR GR, Elastophene Flam

FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or Sopralene Flam

250 FR+ GR, Soprastar Flam torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water maybe maintained for a period longer than 24 hours if

required.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

STYROFOAM High Load 60 Insulation, STYROFOAMTM PLAZAMATETM

Minimum 1.5" thick N/A N/A

Note: All layers of insulation shall be adhered with Duotack adhesive beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation as the final membrane substrate.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed

shall be corrected.

Protection Board / Drainage Laver:

Install drainage board over top ply membrane

(Optional)

Surfacing: Structural Concrete Slab, minimum 2500 psi, in compliance with applicable

Building Code.

Maximum Design

N/A (Topping concrete slab shall comply with applicable Building Code

Pressure:

requirement.)



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Deck Type 7I: Recover, Insulated

Deck Description: Structural Concrete or Min. 18-22 ga., A1008 SS Grade 33, Type B steel deck

fastened to $\frac{1}{4}$ " thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and $\frac{3}{4}$ " diameter steel washers spaced a maximum 6" o.c. at the

supports. Side laps are fastened with Traxx/1 fasteners spaced 24 in. o.c.

System Type D(1): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi.

N/A

N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Sopraboard

Minimum $\frac{1}{8}$ " thick N/A N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 611, Soprafix Base 610, Soprafix Base 630, Soprafix,

Soprafix Base 622, Soprafix [S], Soprafix Base 612, Soprafix [F], Soprafix Base 613, Soprafix [X] or Soprafix Base 614 fastened to the deck as described below:

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Fastening #1: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. in a

4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. in a

4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Ply Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (**Optional**) 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 18

2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprafix Cap FR-651, Sopralene Flam 180 GR,

Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 FR+ GR, Sopralene Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock,

torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

(Optional)

Pressure: See Fastening options above.



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Deck Type 7I: Recover, Insulated

Deck Description: Structural Concrete or Min. 18-22 ga., A1008 SS Grade 33, Type B steel deck

fastened to $\frac{1}{4}$ " thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and $\frac{3}{4}$ " diameter steel washers spaced a maximum 6" o.c. at the

supports. Side laps are fastened with Traxx/1 fasteners spaced 24 in. o.c.

System Type D(2): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi.

N/A

N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners Fastener
(Table 3)

Fastener
Density/ft²

Sopraboard

Minimum $\frac{1}{8}$ " thick $\frac{N}{A}$

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 621, Soprafix, Soprafix Base 622, Elastophene 180

Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 180 Sanded, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 Sanded or Sopralene 250 SP fastened to the deck as described

below:

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Fastening #1: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide, torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide, torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Membrane: Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Sopralene 180 FR

GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded fully adhered to the base sheet with COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive, FM Adhesive , FM Adhesive (VOC) or Soprastar Adhesive at 1.5 – 2.0 gallons/square. The 3" wide side laps are adhered with the

same adhesive or torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

(Optional)

Pressure: See Fastening options above.

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Deck Type 7I: Recover, Insulated

Deck Description: Structural concrete or Min. 22 ga., A1008 or A653 Grade 80, Type B steel deck

fastened to $\frac{1}{4}$ " thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and $\frac{3}{4}$ " diameter steel washers spaced a maximum 6" o.c. at the

supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.

System Type D(3): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi. N/A N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Sopraboard

Minimum 0.125" thick N/A N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum 0.25" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 611, Soprafix Base 610, Soprafix Base 630, Soprafix,

Soprafix Base 622, Soprafix [S], Soprafix Base 612, Soprafix [F], Soprafix Base 613, Soprafix [X] or Soprafix Base 614 fastened to the deck as described below:

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Fastening #1: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal

Seam Plates or SOPREMA #14 MP Fasteners with SOPREMA 2" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2.4" Scoop Seam

Plates or SOPREMA #14 MP Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Fastening #3: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. in a

4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -120 psf. See General Limitation #7.)

Fastening #4: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. in a

4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -142.5 psf. See General Limitation #7.)

Ply Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (**Optional**) 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180.

2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprafix Cap FR-651, Sopralene Flam 180 GR,

Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, torch-applied. The 3" wide side laps of the can sheets are torch-applied.

torch-applied. The 3" wide side laps of the cap sheets are torch-applied. Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

(Optional)

Integrity Test:

Pressure: See Fastening options above.

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Deck Type 7I: Recover, Insulated

Deck Description: Structural concrete or min. 22 ga., Type B, Grade 80 ksi steel deck fastened to \(\frac{1}{4} \) ''

thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and 3/4" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.

System Type D(4): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi. N/A N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners Fastener
(Table 3)

Density/ft²

Sopraboard

Minimum $\frac{1}{8}$ " thick N/A N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 621, Soprafix, Soprafix Base 622, Elastophene 180

Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 180 Sanded, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 Sanded or Sopralene 250 SP fastened to the deck as described

below:

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Fastening #1: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal

Seam Plates or SOPREMA #14 MP Fasteners with SOPREMA 2" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -67.5 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2.4" Scoop Seam

Plates or SOPREMA #14 MP Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -75 psf. See General Limitation #7.)

Fastening #3 Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2.4" Scoop

Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -97.5 psf. See General Limitation #7.)

Fastening #4: Attach base sheet using Trufast #14 HD or Trufast #15 EHD Fasteners with

Trufast 2" Barbed Metal Seam Plates or Trufast 2.4" Scoop Seam Plates or SOPREMA #14 MP or SOPREMA #15 HD Fasteners with SOPREMA 2" Seam Plates or SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered inside the 4" wide torch-applied

base sheet side laps.

(Meets Maximum Design Pressure of -120 psf. See General Limitation #7.)

Membrane: Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Sopralene 180 FR

GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded fully adhered to the base sheet with COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive, FM Adhesive, FM Adhesive (VOC) or Soprastar Adhesive at 1.5 – 2.0 gallons/square. The 3" wide side laps are adhered with the

same adhesive or torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

(Optional)

Pressure: See Fastening options above.

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Deck Type 7I: Recover, Insulated

Deck Description: Structural concrete or min. 22 ga., A1008 or A653 Grade 80 ksi steel deck

fastened to ¼" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners spaced a maximum 6" o.c. at the supports. Side laps are

fastened with Traxx/1 fasteners spaced 12 in. o.c.

System Type D(5): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi.

N/A

N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Sopraboard

Minimum $\frac{1}{8}$ " thick N/A N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ½" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix [X] or Soprafix Base 614 fastened to the deck as described

below:

Fastening#1: Attach base sheet using Trufast #15 EHD Fasteners and SOPREMA #15 HD

Fasteners with Trufast 2.4" Scoop Seam Plates and SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 12" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -97.5 psf. See General Limitation #7.)

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Fastening #2: Attach base sheet using Trufast #15 EHD Fasteners and SOPREMA #15 HD

Fasteners with Trufast 2.4" Scoop Seam Plates and SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -172.5 psf. See General Limitation #7.)

Plv Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (Optional) 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180,

Colphene Flam 180, Sopralene Flam 250, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprafix Cap FR-651, Sopralene Flam 180 GR,

> Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR. Colphene Flam 180 FR GR. Sopralene Flam 180 FR GR 3.5. Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Soprastar Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock,

torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Contractor and a representative of the membrane manufacturer shall inspect the **Inspection:**

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating (Optional)

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

Pressure: See Fastening options above.



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Deck Type 7I: Recover, Insulated

Deck Description: Structural concrete or min. 22 ga., A1008 SS Grade 33, Type B steel deck

fastened to $\frac{1}{4}$ " thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and $\frac{3}{4}$ " diameter steel washers spaced a maximum 6" o.c. at the

supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.

System Type D(6): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi. N/A N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners Fastener
(Table 3)

Density/ft²

Sopraboard

Minimum $\frac{1}{8}$ " thick N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 611, Soprafix Base 610, Soprafix Base 630, Soprafix,

Soprafix Base 622, Soprafix [S], Soprafix Base 612, Soprafix [F], Soprafix Base 613, Soprafix [X] or Soprafix Base 614 fastened to the deck as described below:

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Fastening: Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal

> Seam Plates or Trufast 2.4" Scoop Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2" Seam Plates or SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. in a 4" wide

torch-applied base sheet side laps.

Plv Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (Optional)

2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprafix Cap FR-651, Sopralene Flam 180 GR,

> Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR. Colphene Flam 180 FR GR. Sopralene Flam 180 FR GR 3.5. Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Soprastar Flam, Sopralast 50 TV Alu, Sopralene Flam Antirock,

torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating (Optional)

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

Pressure: -112.5 psf. (See General Limitation #7.)

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Deck Type 7I: Recover, Insulated

Deck Description: Structural concrete or Min. 18 ga., Type B, Grade 33 steel deck fastened to \(\frac{1}{4} \) ''

thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners and 3/4" diameter steel washers spaced a maximum 6" o.c. at the supports. Side laps are fastened with Traxx/1 fasteners spaced 12 in. o.c.

System Type D(7): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi. N/A N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Sopraboard

Minimum $\frac{1}{8}$ " thick N/A N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 621, Soprafix, Soprafix Base 622, Elastophene 180

Sanded, Colphene 180 Sanded, Sopralene 180 Sanded 2.2, Sopralene 180 Sanded, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 Sanded or Sopralene 250 SP fastened to the deck as described

below:

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NOA No.: 16-0229.05 Expiration Date: 09/18/18 Approval Date: 07/14/16 Page 30 of 74 **Fastening:** Attach base sheet using Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal

> Seam Plates or Trufast 2.4" Scoop Seam Plates or SOPREMA #15 HD Fasteners with SOPREMA 2" Seam Plates or SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and centered

inside the 4" wide torch-applied base sheet side laps.

Membrane: Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Sopralene 180 FR

> GR, Colphene 180 FR GR, Sopralene 180 FR+ GR, Sopralene 180 Ultra FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, Sopralene 250 Ultra FR GR, Sopralene 250 FR+ GR, Sopralast 50 TV Alu Sanded or Soprastar Sanded fully adhered to the base sheet with COLPLY EF Adhesive, COLPLY Adhesive, COLPLY Modified Adhesive, FM Adhesive, FM Adhesive (VOC) or Soprastar Adhesive at 1.5 - 2.0 gallons/square. The 3" wide side laps are adhered with the

same adhesive or torch-applied.

Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating **Surfacing:**

system. Refer to Underwriters Laboratories or Intertek Testing Services listings (Optional)

for applicable fire classifications.

Maximum Design

Pressure: -112.5 psf. (See General Limitation #7.)

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Deck Type 7I: Recover, Insulated

Deck Description: Structural concrete or min. 22 ga., A1008 or A653 Grade 80 ksi steel deck

fastened to ½" thick steel structural supports spaced a maximum of 6' o.c. with Traxx/5 fasteners spaced a maximum 6" o.c. at the supports. Side laps are

fastened with Traxx/1 fasteners spaced 12 in. o.c.

System Type D(8): Membrane fastened over preliminarily secured insulation.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Pensity/ft²

Celcore MF Cellular Concrete, Siplast Lightweight Insulating Concrete, Elastizell Lightweight Insulating Concrete, Concrecel Lightweight Insulating Concrete or Mearlcrete Lightweight Insulating Concrete

Minimum 2.0" thick, Minimum 300 psi.

N/A

N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented. When any insulation is installed directly over LWC it must be separated by a slip sheet or approved membrane.

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ACFoam-II, Sopra-ISO s, ISO 95+ GL, Ultra-Max, H-Shield, M-Shield, Sopra-ISO r,

Sopra-ISO x

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Sopraboard

Minimum 0.125" thick N/A N/A

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum 0.25" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet. Insulation shall be limited to maximum 1" thickness. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One layer of Soprafix Base 611, Soprafix Base 610, Soprafix Base 630, Soprafix,

Soprafix Base 622, Soprafix [S], Soprafix Base 612, Soprafix [F], Soprafix Base 613, Soprafix [X] or Soprafix Base 614 fastened to the deck as described below:

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NOA No.: 16-0229.05 Expiration Date: 09/18/18 Approval Date: 07/14/16 Page 32 of 74 **Fastening #1:** Attach base sheet using Trufast #14 HD Fasteners with Trufast 2" Barbed Metal

Seam Plates or SOPREMA #14 MP Fasteners with SOPREMA 2" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -120 psf. See General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Fasteners with Trufast 2.4" Scoop Seam

Plates or SOPREMA #14 MP Fasteners with SOPREMA 2.4" Seam Plates with row spacing at a maximum 35.5" o.c. The fasteners are spaced 6" o.c. and

centered inside the 4" wide torch-applied base sheet side laps.

(Meets Maximum Design Pressure of -135 psf. See General Limitation #7.)

Ply Sheet: One or more plies of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (**Optional**) 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 18

2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene Flam 250, Sopralene 180 SP 3.0, Sopralene 180

SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprafix Cap FR-651, Sopralene Flam 180 GR,

Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 180 Ultra FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 Ultra FR GR, Sopralene Flam 250 FR+ GR, Sopralene Flam 250 FR+ GR, Sopralene Flam Antirock, torch applied. The 3" wide side large of the consequence for the problem.

torch-applied. The 3" wide side laps of the cap sheets are torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

(Optional)

Pressure: See Fastening options above.

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Membrane Type: SBS

Deck Type 4: Lightweight Decks, Non-Insulated

Mearlcrete Lightweight Insulating Concrete, min. 200 psi. **Deck Description:**

Base sheet mechanically attached directly to substrate. Membranes adhered to System Type E(1):

base sheet for Terrace/Plaza Decks. Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck: Min. 22 ga. Grade 33, Type BV Steel Deck attached 6" o.c. with 3/8 in.

> welding washers to steel supports spaced max 5 ft. o.c. Deck side laps are attached with 2 #10 steel self-tapping screws evenly spaced between purlins or

min 2,500 psi structural concrete.

LWIC: Mearlcrete Lightweight Insulating Concrete, min. 200 psi, wet cast density 40

pcf, with minimum 1.5" thick EPS board embedded in 1/8" slurry. Followed

by, wet cast density 40 pcf, minimum 2" thick top coat.

All surfaces must be dry, smooth, free of depressions, voids and protrusions, **Substrate Preparation:**

and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Base Sheet: Sopra G mechanically with OMG CR Base Ply Fasteners (1.7) spaced 7-inch

o.c. at the 4-inch laps and 7-inch o.c. in two equally spaced, staggered center

rows.

One ply of Elastophene Sanded, Colphene Sanded, Elastophene 180 Sanded, **Ply Sheet:**

Colphene 180 Sanded, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 PS*, Sopralene 180 Sanded, Sopralene 250 Sanded or one or more plies of Sopra IV or Sopra VI ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR, **Membrane:**

> Elastophene Flam LS FR GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam

180 FR+ GR, Sopralene Flam 250 FR+ GR, torch-applied.

Elastophene FR GR, Elastophene LS FR GR, Elastophene GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR or Colphene 250 FR GR adhered in a full mopping of approved asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq. to sand surfaced ply membrane.

Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Apply any coating listed in Table 4 above, or any Miami-Dade approved **Surfacing:** (Optional) coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

-52.5 psf. (See General Limitation #7.) **Pressure:**



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Membrane Type: SBS

Deck Type 4: Lightweight Decks, Non-Insulated

Deck Description: Concrecel Concrete, min. 400 psi.

System Type E(2): Base sheet mechanically attached directly to substrate. Membranes adhered to

base sheet for Terrace/Plaza Decks, Planters or Traffic Areas

All General and System Limitations apply.

Structural Deck: Min. 22 ga. Grade SS80, Type B Steel Deck attached 6" o.c. with 5/8 in.

puddle welds and washers to steel supports spaced max 5 ft o.c. Deck side laps are attached with Traxx/1 screws spaced 12" o.c. or min 2,500 psi structural

concrete.

LWIC Deck: Concrecel Bonding Agent applied to deck at a rate of 600 ft²/gal; Concrecel

Concrete, 46.4 pcf wet cast density, min. 400 psi, concrete pour consisting of a 1/4" slurry coat, minimum 1" thick Holey Board and a minimum 2-1/4" thick top coat, 43 pcf wet cast density. Followed by Concrecel Curing Compound

spay-applied at a rate of 600 ft²/gal.

Base Sheet: Sopra G or Modified Sopra G mechanically attached with OMG CR Base Ply

Fasteners (1.7") spaced 7-inch o.c. at the 3-inch laps and 7-inch o.c. in two

equally spaced, staggered center rows.

Ply Sheet: One ply of Elastophene Flam*, Elastophene Flam 2.2*, Elastophene SP 2.2,

Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Soprafix, Soprafix Base 622, Sopralene Flam 250*, Sopralene 250 SP, heat welded.

Or

One ply of Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene HS, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene 180 PS*, Colphene 180 PS*, Sopralene 180 PS 2.2*, Sopralene 180 Sanded, Sopralene 180 PS*, Sopralene 250 Sanded, or one to three plies of Sopra IV or Sopra VI ply sheet, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in FM Adhesive, FM Adhesive (VOC), COLPLY Modified Adhesive, or Soprastar Adhesive at 1.5 – 2.0 gallons/square to sand surfaced base membrane.

*Requires heat welded cap membrane.

Membrane: One layer of Elastophene Flam GR, Elastophene Flam FR GR, Elastophene

Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 250 FR GR,

Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, heat welded.

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Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Soprastar Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR or Colphene 250 FR GR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in FM Adhesive, FM Adhesive (VOC), COLPLY Modified Adhesive or Soprastar Adhesive at 1.5 – 2.0 gallons/square to sand surfaced ply membrane.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved **(Optional)** coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7.)



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Deck Type 4: Lightweight Decks, Non-Insulated Deck Description: Concrecel Concrete, min. 400 psi.

System Type E(3): Base sheet mechanically attached directly to substrate. Membranes adhered to

base sheet for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck: Min. 22 ga. Grade SS80, Type B Steel Deck attached 6" o.c. with 5/8 in.

puddle welds and washers to steel supports spaced max 5 ft o.c. Deck side laps are attached with Traxx/1 screws spaced 12" o.c. or min 2,500 psi structural

concrete.

LWIC Deck: Concrecel Bonding Agent applied to deck at a rate of 600 ft2/gal; Concrecel

Concrete, 46.4 pcf wet cast density, min. 400 psi, concrete pour consisting of a 1/4" slurry coat, minimum 1" thick Holey Board and a minimum 2-1/4" thick top coat, 43 pcf wet cast density. Followed by Concrecel Curing Compound

spay-applied at a rate of 600 ft2/gal.

Base Sheet: Sopralene 180 Sanded or Colphene 180 Sanded mechanically attached with

OMG CR Base Sheet Fastener (1.2" or 1.7") spaced 7-inch o.c. at the 4-inch

laps and 7-inch o.c. in two equally spaced, staggered center rows.

Ply Sheet: One ply of Elastophene Sanded, Colphene Sanded, Elastophene 180 Sanded,

Colphene 180 Sanded, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 PS*, Colphene 180 PS, Sopralene 180 PS 2.2*, Sopralene 180 PS*, Sopralene 180 Sanded, Sopralene 250 Sanded or one or more plies of Sopra IV or Sopra VI ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam FR+ GR,

Elastophene Flam LS FR GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 250 FR GR, Sopralene Flam

180 FR+ GR, Sopralene Flam 250 FR+ GR, torch-applied.

Or

Elastophene FR GR, Elastophene LS FR GR, Elastophene GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR or Colphene 250 FR GR adhered in a full mopping of approved asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq. to sand surfaced ply membrane.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -60 psf. (See General Limitation #7.)

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Deck Type 4: Lightweight Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi,

System Type E(4): Base sheet mechanically attached directly to substrate. Membranes adhered to

base sheet for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck: Structural concrete or 18-22 ga. Type B steel deck installed and welded to

> minimum 0.25 in. thick steel structural supports spaced maximum 5' o.c. using 3/8" diameter weld washers 6" o.c. at each bearing. The deck side laps are

fastened at 30" o.c. using Traxx/1 fasteners.

LWIC Deck: Celcore MF Cellular Concrete with Celcore HS Rheology Modifying

> Admixture with a minimum wet cast density of 38 lbs./ft³, min. 300 psi, filling the corrugation with a minimum depth of 1/8". The Celcore HS admixture was added to the mixture during the mixing process at a rate of 3.4 fl. oz. per 100 lbs. of cement. Minimum 1" thick Holey Boards are then immediately placed in a brick-like pattern into the wet concrete and allowed to set overnight. The following day, a minimum 2" thick topping layer of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture is placed atop the EPS at a wet cast density of 38 lbs./ft³, min. 300 psi. After an overnight set, Celcore PVA Curing Compound is spray applied to the lightweight concrete at

a rate of 0.33 gal/sq. and allowed to dry for 48 hours.

Substrate Preparation: All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene Sanded, **Base Sheet:**

> Colphene Sanded, Sopra G, Modified Sopra G, Sopra IV, Sopra VI, Soprafix, Soprafix Base 622, Soprabase*, Soprabase S* mechanically attached with FM-90 or SOPREMA 1.7 in. Base Sheet Fastener spaced 9" o.c. at the 4" laps and

12" o.c. in two equally spaced, staggered rows. *Requires asphalt applied or cold applied ply sheets.

Plv Sheet: (Optional) Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*,

Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250* or Sopralene 250 SP,

torch-applied with minimum 3" wide lap.

Or

Elastophene Sanded, Colphene Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 PS*, Colphene 180 PS, Sopralene 180 PS 2.2*, Sopralene 180 PS*, Sopralene 180 Sanded, Sopralene 250 Sanded or one or more plies of Sopra IV or Sopra VI ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.



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Membrane:

Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Soprafix Cap FR-651, torch-applied.

Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Soprastar Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR or Colphene 250 FR GR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in FM Adhesive, FM Adhesive (VOC), COLPLY Modified Adhesive or Soprastar Adhesive at 1.5 –

2.0 gallons/square to sand surfaced ply membrane.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved (Optional)

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

-60 psf. (torch applied membranes) (See General Limitation #7.) **Maximum Design**

-52.5 psf. (all other membrane applications) (See General Limitation #7.) Pressure:

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Deck Type 4: Lightweight Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi.

System Type E(5): Base sheet mechanically attached to the primed substrate. Membranes adhered

to base sheet for Terrace/Plaza Decks, Planters or Traffic Areas

All General and System Limitations apply.

Structural Deck: 18-22 ga. Grade 33, galvanized steel deck installed and welded to minimum

0.25 in. thick steel structural supports spaced maximum 6' o.c. using 3/8" diameter weld washers 6" o.c. at each bearing. The deck side laps are fastened at 24" o.c. (three evenly spaced fasteners between supports) using Teks 1 or

Traxx/1 fasteners between supports. Or structural concrete deck.

Thermal Barrier: Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board mechanically

fastened with OMG Heavy Duty fasteners, OMG 3" Galvalume Steel Plates, Dekfast Galvalume Steel Hex plates, Dekfast Galvalume Steel 3" Round plates, Dekfast 14 fasteners, Trufast 3" Metal Insulation Plates and Trufast #14 Stainless Steel HD Fasteners or SOPREMA 3" Round Insulation Plate and

SOPREMA #14 Fasteners at a rate of 1 per 1.6 ft².

Vapor Barrier: One layer of Elastophene SP 2.2 or Colphene SP 2.2, torch-applied with

minimum 3" wide lap or one layer of Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene Sanded, Colphene Sanded, Sopralene 180 Sanded or

Sopralene 250 Sanded, hot asphalt applied.

LWIC Deck: Celcore MF Cellular Concrete with Celcore HS Rheology Modifying

Admixture with a min. 300 psi, min. wet cast density of 43.5 lbs./ft³, filling the corrugation with a minimum depth of 1/8". The Celcore HS admixture was added to the mixture during the mixing process at a rate of 3.4 fl. oz. per 100 lbs. of cement. Minimum 1" thick Insulfoam EPS Holey Boards are then immediately placed in a brick-like pattern into the wet concrete and allowed to set overnight. The following day, a minimum 2" thick topping layer of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture is

placed atop the EPS at a wet cast density of 45 lbs./ft³, min. 300 psi.

Base Sheet: Sopra G, Modified Sopra G or Sopra VI mechanically attached with FM-90,

SOPREMA 1.7 in. Base Sheet Fastener or OMG CR Base Ply Fasteners (1.7") spaced 7-inch o.c. at the 3-inch laps and 7-inch o.c. in two equally spaced,

staggered center rows.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam

180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or

Sopralene Flam 250, torch-applied.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR

GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralen

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(Optional)

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Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Apply any coating listed in Table 4 above, or any Miami-Dade approved **Surfacing:** (Optional)

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -60 psf. (See General Limitation #7.)



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Deck Type 4: Lightweight Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 350 psi

System Type E(6): Base sheet mechanically attached directly to substrate. Membranes adhered to

base sheet for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck: 18-22 ga. Grade 33, galvanized steel deck installed and welded to minimum

> 0.25 in. thick steel structural supports spaced maximum 6' o.c. using 3/8" diameter weld washers 6" o.c. at each bearing. The deck side laps are fastened at 24" o.c. (three evenly spaced fasteners between supports) using Teks 1 or

Traxx/1 fasteners between supports. Or structural concrete deck.

Thermal Barrier:

(Optional)

(With steel deck only) Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board

mechanically attached with OMG Heavy-Duty fasteners and OMG 3"

Galvalume Steel Plates at 1.6 ft².

Vapor Barrier: (Optional)

Elastophene SP 2.2, Elastophene SP 3.0, Colphene SP 2.2, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied over substrate primed with Elastocol 500, Elastocol Stick

or ASTM D41 primer.

LWIC Deck: A 1/8" slurry coat of, min. 350 psi, 43.5 pcf wet cast density, Celcore MF

Cellular Concrete with Celcore HS Rheology Modifying Admixture with min. 1" thick Holy Board and a minimum 2" thick top coat, min. 350 psi, 43.5 pcf wet cast density. After setting to support foot traffic, Celcore PVA Curing

Compound is applied at a rate of 0.33 gal/square.

Base Sheet: Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene Sanded,

> Colphene Sanded, Sopra G, Modified Sopra G, Sopra IV, Sopra VI, Soprafix, Soprafix Base 622, Soprabase*, Soprabase S* mechanically attached with FM-90 or SOPREMA 1.7 in. Base Sheet Fastener spaced 9-inch o.c. at the 4-inch

laps and 12-inch o.c. in two equally spaced, staggered center rows.

*Requires asphalt applied or cold applied ply sheets.

Ply Sheet: (Optional) Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*,

Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250* or Sopralene 250 SP,

torch-applied with minimum 3" wide lap.

Or

Elastophene Sanded, Colphene Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 PS*, Colphene 180 PS, Sopralene 180 PS 2.2*, Sopralene 180 PS*, Sopralene 180 Sanded, Sopralene 250 Sanded or one or more plies of Sopra IV or Sopra VI ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.



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Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR **Membrane:**

GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Soprafix Cap FR-651, torch-applied.

Or

Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Soprastar Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR or Colphene 250 FR GR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in FM Adhesive, FM Adhesive (VOC), COLPLY Modified Adhesive or Soprastar Adhesive at 1.5 –

2.0 gallons/square to sand surfaced ply membrane.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Apply any coating listed in Table 4 above, or any Miami-Dade approved **Surfacing:** (Optional)

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

-60 psf. (torch applied membranes) (See General Limitation #7.) **Maximum Design**

-52.5 psf. (all other membrane applications) (See General Limitation #7.) **Pressure:**



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Deck Type 4: Lightweight Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi, min.

System Type E(7): Base sheet mechanically attached directly to substrate. Membranes adhered to

base sheet for Terrace/Plaza Decks, Planters or Traffic Areas.

All General and System Limitations apply.

Structural Deck: 18-22 ga. Grade 33, Type B steel deck secured to the structural supports 6" o.c.

with ½" welds and washers spaced maximum 5' o.c. The deck side laps are fastened at 24" o.c. (three evenly spaced fasteners between supports) using

Traxx/1 screws between supports or min. 2,500 structural concrete.

LWIC Deck: Celcore MF Cellular Concrete, min. 300 psi, min. wet cast density of 42

lbs./ft³, with Celcore HS Rheology Modifying Admixture applied in a min. 1/8" slurry. Minimum 1" thick Holey Boards are then immediately placed into the wet concrete and allowed to set overnight. The following day, a min. 2" thick topping layer of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture is placed atop the EPS. After an overnight set, Celcore PVA Curing Compound is spray applied to the lightweight concrete at a rate of

300 ft²/gal.

Base Sheet: Sopra G, Modified Sopra G, Sopra IV, Sopra VI, Soprabase*, Soprabase S*

mechanically attached with FM-90, SOPREMA 1.7 in. Base Sheet Fastener or OMG CR Base Ply Fasteners (1.7") or Soprabase, Soprabase S mechanically attached with FM-90 or SOPREMA 1.7 in. Base Sheet Fastener spaced 7-inch o.c. at the 3-inch laps and 7-inch o.c. in two equally spaced, staggered center

rows.

*Requires asphalt applied or cold applied ply sheets.

Ply Sheet: Elastophene Flam*, Elastophene Flam 2.2*, Elastophene Flam HS*,

Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180*, Colphene Flam 180*, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250* or Sopralene 250 SP,

torch-applied with minimum 3" wide lap.

Or

Elastophene Sanded, Colphene Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Elastophene PS*, Elastophene PS 3.0*, Elastophene 180 PS*, Colphene 180 PS, Sopralene 180 PS 2.2*, Sopralene 180 PS*, Sopralene 180 Sanded, Sopralene 250 Sanded or one or more plies of Sopra IV or Sopra VI ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.

*Requires torch-applied cap membrane.

Membrane: Elastophene Flam GR, Elastophene Flam FR GR, Elastophene Flam LS FR

GR, Elastophene Flam FR+ GR, Soprastar Flam, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene Flam 250 FR GR, Sopralene Flam 250 FR+ GR, Soprafix Cap FR-651, torch-applied.

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Membrane: Elastophene GR, Elastophene FR GR, Elastophene LS FR GR, Soprastar (Continued) Sanded, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR or

Colphene 250 FR GR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in FM Adhesive, FM Adhesive (VOC), COLPLY Modified Adhesive or Soprastar Adhesive at 1.5 –

2.0 gallons/square to sand surfaced ply membrane.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved **(Optional)** coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design -75 psf. (torch applied membranes) (See General Limitation #7.)

Pressure: -52.5 psf. (all other membrane applications) (See General Limitation #7.)



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Deck Type 4: Lightweight Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi.

System Type E(8): Base sheet mechanically attached to the primed substrate. Membranes adhered

to base sheet for Terrace/Plaza Decks, Planters or Traffic Areas

All General and System Limitations apply.

Structural Deck: Min. 22 ga. Grade 33, painted or galvanized steel deck attached 6" o.c. with 3/8

> in. weld washers to steel supports spaced max 6 ft o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c or min. 2,500 structural concrete

Thermal Barrier:

(Optional)

(Optional)

(With steel deck only) Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board (Optional) mechanically fastened with OMG Heavy Duty fasteners, OMG 3" Galvalume

Steel Plates, Dekfast Galvalume Steel Hex plates, Dekfast Galvalume Steel 3" Round plates, Dekfast 14 fasteners, Trufast 3" Metal Insulation Plates and Trufast #14 Stainless Steel HD Fasteners, or SOPREMA 3" Round Insulation

Plate and SOPREMA #14 Fasteners at a rate of 1 per 1.6 ft².

Elastophene SP 2.2, Elastophene SP 3.0, Colphene SP 2.2, Colphene SP 3.0, Vapor Barrier:

Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene 250 SP, torch-applied over substrate primed with Elastocol 500, Elastocol Stick

or ASTM D41 primer.

A 1/8" slurry coat of, min. 300 psi, Celcore MF Cellular Concrete with Celcore LWC Deck:

> HS Rheology Modifying Admixture with min. 1" thick Holy Board and a minimum 2" thick top coat. After setting to support foot traffic, Celcore PVA

Curing Compound is applied at a rate of 0.33 gal/square.

Base Sheet: One ply of Sopra G, Modified Sopra G or Sopra VI mechanically attached with

FM-90, SOPREMA 1.7 in. Base Sheet Fastener or OMG CR Base Ply

Fasteners (1.7") or Soprabase, Soprabase S mechanically attached with FM-90 or SOPREMA 1.7 in. Base Sheet Fastener spaced 7-inch o.c. at the 3-inch laps

and 7-inch o.c. in two equally spaced, staggered center rows.

Plv Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam

180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or

Sopralene Flam 250, torch-applied.

Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR Membrane:

> GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam, Soprafix Cap FR-651, torch-applied.

Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water may be maintained for a period longer than 24 hours if

required.



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Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved **(Optional)** coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -75 psf. (See General Limitation #7.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(1): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release **Preparation:**

agents and other surface contaminants.

Primer: Concrete deck shall be primed with Elastocol Stick primer applied at a rate of

1 gal/sq.

Base Sheet: Sopralene Stick, Colphene Stick or Sopralene Flam Stick*, self-adhered.

*Requires heat welded cap sheet.

Membrane: Soprastar Stick, Elastophene Stick FR GR, self-adhered to sand surfaced base

or ply membrane primed with Elastocol Stick.

Or

Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene

Flam 250 FR+ GR, torch-applied.

Or

Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Sopralene 180 FR GR, Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR or Soprastar Sanded applied in hot asphalt at 25 lbs/square or adhered with FM Adhesive, COLPLY Adhesive, FM Adhesive (VOC), COLPLY Modified

Adhesive or Soprastar Adhesive at 1.5 gal/square.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

> the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed

shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved (Optional)

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -67.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(2): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

SubstrateAll surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to

dry.

Base Sheet: Sopra G, Modified Sopra G, Soprabase, Soprabase S, Elastophene HS,

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with FM Adhesive or COLPLY Adhesive applied at 1.5

gal/square.

Membrane: Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Sopralene 180

FR GR, Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR or Soprastar Sanded adhered with FM Adhesive or COLPLY Adhesive

applied at 1.5 gal/square.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed

shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

(Optional)

Pressure: -82.5 psf. (See General Limitation #9.)

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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(3): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

SubstrateAll surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Elastocol 500 or ASTM D 41 primer applied to deck at a rate of 100-150

ft²/gal.

Base Sheet: Colvent Flam TG or Colvent Flam 180 TG, torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP (Optional) 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene

180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250

or Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR,

Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180

FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or

Sopralene Flam 250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed

shall be corrected.

Surfacing: Wausau Terra-System One with Lok-Down adhered to the top surface of the

waterproofing system in Sopramastic SP-1 at 0.30 - 0.35 gal/ft². (0.1)

gal/pedestal base). Followed by the 2' x 2' Terra-Pavers and the Lok-Down

securement tabs and screws.

NOTE: All plastic surfaces shall be primed with Chem Link TPO Primer prior to

application of Sopramastic SP-1 adhesive.

Maximum Design

Pressure: -90 psf. (See General Limitation #9.)

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Elastizell Lightweight Concrete, min. 300 psi.

System Type F(4): Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: Min. 22 ga., Type B, Grade 33 vented Steel deck attached 6" o.c. with Traxx/5

screws to steel support spaced max 6 ft o.c. Deck side laps are attached with

Traxx/1 screws spaced 12" o.c.

LWIC Deck: Elastizell Range II with Zell-Crete Fibers, min. 300 psi, consisting of a 1/8"

slurry coat, minimum 1" thick Holey Board and a minimum 2" thick top coat.

Base Sheet: Elastophene HS, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

3.0, Elastophene HD, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with Millennium Hurricane Force Membrane Adhesive with 0.5 – 1.0-inch wide ribbons spaced 12-inch

o.c.

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied at a rate of 1

gal./sq.

Membrane: Elastophene Stick FR GR or Soprastar Stick*, self-adhered.

*Base layer shall be primed with Elastocol Stick prior to applying cap sheet.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved

(Optional) coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -105 psf. (See General Limitation #9.)

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Min. 300 psi, min 2-inch thick Elastizell Range II with Zell-Crete Fibers. **Deck Description:**

Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or System Type F(5):

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete or min. 22 ga., Type B, Grade 33 vented steel deck

welded to supports spaced max. 6' o.c. with Traxx/5 fasteners spaced 6" o.c.

Deck side laps are fastened with Traxx/1 fasteners spaced 12" o.c.

All surfaces must be dry, smooth, free of depressions, voids and protrusions, **Substrate Preparation:**

and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Temp Roof: (Only for Concrete Deck) Elastophene Flam GR or Elastophene Flam LS FR

(Optional) GR torch-applied.

Primer: Elastocol 500 or Elastocol Stick applied at a rate of 1 gal./sq.

(Optional)

Base Sheet: Elastophene HS, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

> 3.0, Elastophene HD, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with Millennium Hurricane Force Membrane Adhesive with 0.5 - 1.0-inch wide ribbons spaced 12-inch

o.c.

Primer: (Required with self-adhered top sheet) Elastocol 500 or Elastocol Stick applied

(Optional) at a rate of 1 gal./sq.

Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR **Membrane:**

> GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam or Soprafix Cap FR-651, fully torch-applied.

Elastophene Stick FR GR or Soprastar Stick, self-adhered.

Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing (Optional)

Services listings for applicable fire classifications.

Maximum Design -105 psf. with Steel Decking (See General Limitation #9.)

-240 psf. with Concrete Decking (See General Limitation #9) **Pressure:**

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Celcore MF Cellular Lightweight Concrete, min. 300 psi.

System Type F(6): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

2,500 psi structural concrete. **Structural Deck:**

Primer: Deck primed with ASTM D41 primer.

(Optional)

(Smooth surface sheets) One layer of Elastophene SP 2.2, Colphene SP 2.2, **Temp Roof:** (Optional)

Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP

3.5, Colphene 180 SP 3.5, Sopralene 250 SP, heat welded

(Granule surface sheets) One layer of Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Sopralene Flam 250 FR+ GR, heat welded.

LWIC: Min. 300 psi Celcore MF Cellular Lightweight Concrete deck treated with

Celcore PVA Curing Compound

Primer: Elastocol 500, Elastocol Stick primer at an application rate of 1 gal/sq.

Base Sheet: Colvent Flam TG or Colvent Flam 180 TG, torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene (Optional)

180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250

or Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR,

> Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or Sopralene

Flam 250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads. drainage boards or traffic surfacing. All defects observed shall be corrected.

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Surfacing: Wausau Lok-Down Paver in Lok-Down over Terra-Stand: The 5-inch round

Terra-Stand base is bonded to the top surface of the waterproofing system in Millennium Hurricane Force Membrane Adhesive at 150 ml per base, followed by Terra-Stand core and top components. The Lok-Down base is then bonded to the top surface of the Terra-Stand in Millennium Hurricane Force Membrane Adhesive at 120 ml per base. Followed by the 2' x 2' Terra-Pavers and the Lok-

Down securement tabs and screws.

Maximum Design

Pressure: -122.5 psf. (See General Limitation #9.)



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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Celcore MF Cellular Lightweight Concrete, min. 300 psi

System Type F(7): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

Primer: Deck shall be primed with ASTM D41 primer.

(Optional)

Temp Roof: (*Smooth surface sheets*) One layer of Elastophene SP 2.2, Colphene SP 2.2, (**Optional**) Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0, Sopralene 180 SP

3.5, Colphene 180 SP 3.5, Sopralene 250 SP, heat welded

Or

(*Granule surface sheets*) One layer of Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Sopralene Flam 250 FR+ GR, heat welded.

LWC Deck: Min. 300 psi Celcore MF Cellular Lightweight Concrete deck treated with

Celcore PVA Curing Compound.

Primer: Deck shall be primed with Elastocol 500 or Elastocol Stick primer at an

application rate of 1 gal/sq.

Base Sheet: Colvent Flam TG or Colvent Flam 180 TG, torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP (Optional) 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene

180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250

or Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR,

Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or Sopralene

Flam 250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Wausau Lok-Down Paver in Lok-Down: The Lok-Down base is bonded

directly to the top surface of the waterproofing system in Millennium Hurricane Force Membrane Adhesive at 150 ml per base. Followed by the 2' x 2' Terra-

Pavers and the Lok-Down securement tabs and screws.

Maximum Design -135 psf. (if using granule surfaced vapor barrier) (See General Limitation #9.)

Pressure: -142.5 psf. (all other applications) (See General Limitation #9.)

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Min. 300 psi, min 2-inch thick Elastizell Range II. **Deck Description:**

Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or System Type F(8):

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

Temp Roof: Elastophene Flam GR or Elastophene Flam LS FR GR torch-applied to deck primed with Elastocol 500 or Elastocol Stick primer applied at a rate of 1 (Optional)

gal/sq.

All surfaces must be dry, smooth, free of depressions, voids and protrusions, **Substrate Preparation:** and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Elastocol 500, Elastocol Stick or ASTM D 41 primer applied at a rate of 1 **Primer:**

gal./sq.

Colvent TG, Colvent Flam TG*, Colvent 180 TG, Colvent Flam 180 TG* **Base Sheet:**

torch-applied.

*requires torch applied top sheet.

Plv Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP (Optional)

2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene

180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250

or Sopralene 250 SP, torch-applied.

Membrane: Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Sopralene 180

FR GR, Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR or

Soprastar Sanded adhered with hot asphalt at 20-40 lbs./square.

Or

Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam, torch-applied.

Required, and shall be performed in accordance with ASTM D 5957 by an **Integrity Test:**

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing (Optional)

Services listings for applicable fire classifications.

Maximum Design

-145 psf. (See General Limitation #9.) **Pressure:**

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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(9): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

SubstrateAll surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to

dry.

Base Sheet: Sopra G, Modified Sopra G, Soprabase, Soprabase S, Elastophene HS,

(Optional) Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene

PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with FM Adhesive (VOC), COLPLY Modified Adhesive

or Soprastar Adhesive applied at 1.5 gal/square.

Ply Sheet: Sopra G, Modified Sopra G, Soprabase S, Elastophene HS,

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with FM Adhesive (VOC), COLPLY Modified Adhesive

or Soprastar Adhesive applied at 1.5 gal/square.

Membrane: Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Sopralene 180

FR GR, Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR or Soprastar Sanded adhered with FM Adhesive (VOC), COLPLY Modified

Adhesive or Soprastar Adhesive applied at 1.5 gal/square.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed

shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

(Optional)

Pressure: -187.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(10): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to

dry.

Base Sheet: Sopra G, Modified Sopra G, Soprabase S, Elastophene HS,

(Optional) Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene

PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with FM Adhesive (VOC), COLPLY Modified Adhesive

or Soprastar Adhesive applied at 1.5 gal/square.

Ply Sheet: Sopra G, Modified Sopra G, Soprabase S, Elastophene HS,

Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with FM Adhesive (VOC), COLPLY Modified Adhesive

or Soprastar Adhesive applied at 1.5 gal/square.

Membrane: Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Sopralene 180

FR GR, Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR or Soprastar Sanded adhered with FM Adhesive (VOC), COLPLY Modified

Adhesive or Soprastar Adhesive applied at 1.5 gal/square.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed

shall be corrected.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12"

and minimum ½" thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building

Code.

Maximum Design

Pressure: -187.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Terrace/Plaza Deck, Planter, Traffic **Deck Description:**

System Type F(11): Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

Primer: Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft²/gallon.

One layer of Sopralene Stick, Colphene Stick, Colvent SA, Self-adhered **Base Sheet:**

Primer: Elastocol 500, Elastocol Stick applied at a rate of 1 gal./sq., to top surface of any

base or ply sheet prior to application of next layer (Optional)

Ply Sheet: One or more layers of Elastophene Sanded, Colphene Sanded, Elastophene Sanded 3.0, Elastophene PS, Elastophene 180 Sanded, Colphene 180 Sanded, (Optional)

Sopralene 180 Sanded 2.2, Sopralene 180 Sanded, Sopralene 250 Sanded, applied

in asphalt at a rate of 25 lbs./sq. to sand surface base membrane

One layer of Elastophene LS FR GR. Elastophene FR GR. Sopralene 180 FR GR. **Membrane:**

Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR, applied in

hot asphalt at a rate of 25 lbs./sq.

Required, and shall be performed by an approved lab in accordance with ASTM **Integrity Test:**

D5957. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating

system. Refer to Underwriters Laboratories or Intertek Testing Services listings (Optional)

for applicable fire classifications.

Maximum Design

-240 psf. (See General Limitation #9.) **Pressure:**



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Deck Type 4: Lightweight Concrete Decks, Non-Insulated Deck Description: Celcore MF Cellular Concrete, min. 300 psi.

System Type F(12): Membranes applied directly to substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

Vapor Retarder: Elastophene SP 2.2, Elastophene SP 3.0, Colphene SP 2.2, Colphene SP 3.0, **(Optional)** Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene

250 SP, torch-applied over substrate primed with ASTM D41 primer.

LWC Deck: Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied at a rate of 1

gal./sq.

Base Sheet: Colvent TG, Colvent Flam TG*, Colvent 180 TG or Colvent Flam 180 TG*

torch-applied.

*requires torch applied top sheet.

Ply Sheet: Elastophene HS, Elastophene Sanded, Colphene Sanded, Elastophene Sanded (Optional) 3.0, Elastophene HD, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sande

3.0, Elastophene HD, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with hot asphalt at 20-40

lbs/square.

Or

Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or

Sopralene Flam 250, torch-applied.

Or

Sopralene Stick, Colphene Stick or Sopralene Flam Stick, Self-Adhered.

Membrane: Elastophene GR, Elastophene LS FR GR, Elastophene FR GR, Sopralene 180

FR GR, Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR or

Soprastar Sanded adhered with hot asphalt at 20-40 lbs/square.

Or

Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected. Apply any coating listed in Table 4 above, or any Miami-Dade approved

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -242.5 psf. (See General Limitation #9.)

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated **Deck Description:** Celcore MF Cellular Concrete, min. 300 psi.

Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or System Type F(13):

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

A 1/8" slurry coat of, min. 300 psi, Celcore MF Cellular Concrete with Celcore LWIC Deck:

> HS Rheology Modifying Admixture with min. 1" thick Holy Board and a minimum 2" thick top coat. After allowing to cure for 24-hour period, Celcore

PVA Curing Compound is applied at a rate of 0.33 gal/square.

Primer: ASTM D 41 primer applied at a rate of 1 gal./sq., to top surface of the LWC

deck prior to application of next layer.

Base/Plv Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

> 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or

Sopralene Flam 250, torch-applied.

Membrane: Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR

> GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam, Soprafix Cap FR-651, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Contractor and a representative of the membrane manufacturer shall inspect the **Inspection:**

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved (Optional)

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -255 psf. (See General Limitation #9.)



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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi.

System Type F(14): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete

Temp Roof: Elastophene Flam GR, Elastophene Flam LS FR GR, torch-applied.

(Optional)

LWC Deck: Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS

Rheology Modifying Admixture. After setting to support foot traffic, Celcore

PVA Curing Compound is applied.

Primer: Elastocol 500 or Elastocol Stick applied at a rate of 1 gal./sq.

(Optional)

Base Sheet: Elastophene HS, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

3.0, Elastophene HD, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with Millennium Hurricane Force Membrane Adhesive with 0.5-1.0-inch wide ribbons spaced 12-inch o.c.

Primer: (Required with self-adhered top sheet) Elastocol 500 or Elastocol Stick applied

(**Optional**) at a rate of 1 gal./sq.

Membrane: Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR

GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam or Soprafix Cap FR-651, torch-applied.

Or

Elastophene Stick FR GR or Soprastar Stick, self-adhered.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design -255.0 psf. For torch-applied membranes (See General Limitation #9.)

Pressure: -262.5 psf. For self-adhered membranes (See General Limitation #9.)

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Elastizell Lightweight Concrete, min. 300 psi.

System Type F(15): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

Temp Roof Elastophene Flam GR, Elastophene Flam LS FR GR, torch-applied to deck **(Optional):** primed with Elastocol 500 or Elastocol Stick primer applied at a rate of 1

gal/sq.

LWC Deck: Min. 300 psi, min 2-inch thick Elastizell Range II.

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied at a rate of 1 (**Optional**) gal./sq., to top surface of the LWC deck prior to application of next layer.

Base Sheet: Elastophene HS, Elastophene Sanded, Colphene Sanded, Elastophene Sanded

3.0, Elastophene HD, Elastophene PS, Sopralene 180 Sanded, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 PS 2.2, Elastophene 180 PS, Colphene 180 PS or Sopralene 250 Sanded adhered with Millennium Hurricane Force Membrane Adhesive with 0.5-1.0-inch wide ribbons spaced 12-inch o.c.

Primer: Elastocol 500 or Elastocol Stick applied at a rate of 1 gal./sq.

Membrane: Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR

GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam or Soprafix Cap FR-651, fully torch-applied.

Or

Elastophene Stick FR GR or Soprastar Stick, self-adhered.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved **(Optional)** coating system. Refer to Underwriters Laboratories or Intertek Testing

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Services listings for applicable fire classifications.

Maximum Design -255.0 psf. For torch-applied membranes (See General Limitation #9.)

Pressure: -302.5 psf. For self-adhered membranes (See General Limitation #9.)

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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi.

System Type F(16): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

LWC Deck: Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS

Rheology Modifying Admixture. After setting to support foot traffic, Celcore

PVA Curing Compound is applied.

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied at a rate of 1

gal./sq., to top surface of the LWC deck prior to application of next layer.

Base Sheet: Colvent Flam TG or Colvent Flam 180 TG torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5, Sopralene Flam 250

or Sopralene 250 SP, torch-applied.

Membrane: Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR,

Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or Sopralene

Flam 250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved

(Optional) coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -262.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Terrace/Plaza Deck, Planter, Traffic **Deck Description:**

System Type F(17): Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

Primer: Elastocol 500 or ASTM D41 primer at an application rate of 100-150 ft²/gallon.

Base Sheet: One layer of Colvent TG is heat welded

Primer: Elastocol 500, Elastocol Stick applied at a rate of 1 gal./sq., to top surface of any

base or ply sheet prior to application of next laver (Optional)

One or more layers of Elastophene Sanded, Colphene Sanded, Elastophene **Ply Sheet:** Sanded 3.0, Elastophene 180 Sanded, Colphene 180 Sanded, Sopralene 180 (Optional)

Sanded 2.2, Sopralene 180 Sanded, Sopralene 250 Sanded, applied in asphalt at a

rate of 25 lbs./sq. to sand surfaced base membrane.

Membrane: One layer of Elastophene LS FR GR, Elastophene FR GR, Sopralene 180 FR GR,

Colphene 180 FR GR, Sopralene 250 FR GR, Colphene 250 FR GR applied in

asphalt at a rate of 25 lbs./sq. to sand surfaced base or ply membrane.

Required, and shall be performed by an approved lab in accordance with ASTM **Integrity Test:**

D5957. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

> waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating **Surfacing:** (Optional)

system. Refer to Underwriters Laboratories or Intertek Testing Services listings

for applicable fire classifications.

Maximum Design

Pressure: -262.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(18): Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

Primer: Elastocol 500, Elastocol Stick or ASTM D41 primer at an application rate of 100-

150 ft²/gallon.

Base Sheet: One layer of Sopralene Flam Stick*, Sopralene Stick, Colphene Stick, Colvent

SA, Self-adhered

*Requires heat welded ply or cap membrane

Primer: Elastocol 500, Elastocol Stick applied at a rate of 1 gal./sq., to top surface of any

(Optional) base or ply sheet prior to application of next layer

Ply Sheet: One or more layers of Elastophene Flam*, Elastophene Flam 2.2*, Sopralene

(Optional) Flam 180*, Colphene Flam 180*, Sopralene Flam 250*, heat welded

*Requires heat welded cap membrane.

Membrane: One layer of Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR

GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene

Flam 250 FR+ GR, heat welded.

Integrity Test: Required, and shall be performed by an approved lab in accordance with ASTM

D5957. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Drain Board: Sopradrain ECO-Vent WR or Sopradrain ECO-2 WR adhered to the top

(**Optional**) membrane layer with Duotack adhesive applied in 6" spots in a 12 x 12-inch grid.

Surfacing: Min. 12" x 12" x 1" thick concrete pavers installed in ANSI A118.1 mud-set

(**Optional**) mortar, ¹/₄" minimum notched trowel per ANSI A108.5.

Maximum Design -252.5 psf With Drain Board and Concrete Pavers (See General Limitation #9.)

Pressure: -270 psf. Without Drain Board and Concrete Pavers (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(19): Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

Primer: Elastocol 500, Elastocol Stick or ASTM D41 primer at an application rate of 100-

150 ft²/gallon.

Base Sheet: One layer of Colvent TG, Colvent Flam TG*, Colvent 180 TG or Colvent Flam

180 TG*, heat welded.

*requires torch applied top sheet

Primer: Elastocol 500, Elastocol Stick applied at a rate of 1 gal./sq., to top surface of any

(Optional) base or ply sheet prior to application of next layer

Ply Sheet: One or more layers of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (Optional) 2.2, Colphene SP 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam

180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5,

Sopralene Flam 250, Sopralene 250 SP, heat welded

Membrane: One layer Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR

GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene

Flam 250 FR+ GR, heat welded

Integrity Test: Required, and shall be performed by an approved lab in accordance with ASTM

D5957. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Drain Board: Sopradrain ECO-Vent WR or Sopradrain ECO-2 WR adhered to the top

(Optional) membrane layer with Duotack adhesive applied in 6" spots in a 12 x 12-inch grid.

Surfacing: Min. 12" x 12" x 1" thick concrete pavers installed in ANSI A118.1 mud-set

(**Optional**) mortar, ¹/₄" minimum notched trowel per ANSI A108.5.

Maximum Design -252.5 psf. With Drain Board and Concrete Payers (See General Limitation #9.)

Pressure: -292.5 psf. Without Drain Board and Pavers (See General Limitation #9.)



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Deck Type 4: Lightweight Concrete Decks, Non-Insulated

Deck Description: Celcore MF Cellular Concrete, min. 300 psi.

System Type F(20): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Structural Deck: 2,500 psi structural concrete.

Primer: Concrete shall be primed with ASTM D 41 primer applied at a rate of 1 gal./sq.

Vapor Barrier: Elastophene Sanded, Colphene Sanded, Sopralene 180 Sanded, Elastophene

180 Sanded, Colphene 180 Sanded or Sopralene 250 Sanded adhered with FM

Adhesive or COLPLY Adhesive at 1.5 gal/square

OR

Elastophene SP 2.2, Colphene SP 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene 180 SP 3.0 or Sopralene 180 SP 3.5 or Colphene 180 SP 3.5, torch-

applied.

LWIC Deck: A 1/8" slurry coat of, min. 300 psi, Celcore MF Cellular Concrete with Celcore

HS Rheology Modifying Admixture with min. 1" thick Holy Board and a minimum 2" thick top coat. After allowing to cure for 24-hour period, Celcore

PVA Curing Compound is applied at a rate of 0.33 gal/square.

Primer: Primed with ASTM D 41 primer applied at a rate of 1 gal./sq., to top surface of

the LWC deck prior to application of next layer.

Base Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or

Sopralene Flam 250, torch-applied.

Membrane: Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR

GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam, Soprafix Cap FR-651, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Apply any coating listed in Table 4 above, or any Miami-Dade approved **(Optional)** coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

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Maximum Design
-262.5 psf. with adhesive applied vapor barrier (See General Limitation #9.)
-360 psf. with torch applied vapor barrier (See General Limitation #9.)

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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(21): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release

agents and other surface contaminants.

Primer: Concrete deck shall be primed with ASTM D 41 primer and allowed to dry.

Base Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam 180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5 or

Sopralene Flam 250, torch-applied.

Ply Sheet: Elastophene Flam, Elastophene Flam 2.2, Elastophene SP 2.2, Colphene SP

(Optional) 2.2, Elastophene SP 3.0, Colphene SP 3.0, Sopralene Flam 180, Colphene Flam

 $180,\,Sopralene\,180$ SP $3.0,\,Sopralene\,180$ SP $3.5,\,Colphene\,180$ SP 3.5 or

Sopralene Flam 250, torch-applied.

Membrane: Elastophene Flam GR, Elastophene Flam LS FR GR, Elastophene Flam FR

GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 GR 3.5, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR GR 3.5, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR,

Soprastar Flam, Soprafix Cap FR-651, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed shall be corrected.

Drain Board: Sopradrain ECO-Vent WR or Sopradrain ECO-2 WR adhered to the top

(**Optional**) membrane layer with Duotack adhesive applied in 6" spots in a 12 x 12-inch

grid.

Surfacing: Min. 12" x 12" x 1" thick concrete pavers installed in ANSI A118.1 mud-set

(**Optional**) mortar, ¹/₄" minimum notched trowel per ANSI A108.5.

Maximum Design -252.5 psf. with Drain Board and Pavers (See General Limitation #9.)

Pressure: -367.5 psf. without Drain Board and Pavers (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(22): Membranes applied directly to primed substrate.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants.

Primer: Elastocol 500, Elastocol Stick or ASTM D41 primer at an application rate of 100-

150 ft²/gallon.

Base Sheet: One layer of Colvent TG, Colvent Flam TG*, Colvent 180 TG or Colvent Flam

180 TG*, heat welded.

*requires torch applied top sheet

Primer: Elastocol 500, Elastocol Stick applied at a rate of 1 gal./sq., to top surface of any

(**Optional**) base or ply sheet prior to application of next layer

Ply Sheet: One or more layers of Elastophene Flam, Elastophene Flam 2.2, Elastophene SP (**Optional**) 2.2, Colphene SP 2.2, Elastophene 180 SP, Sopralene Flam 180, Colphene Flam

180, Sopralene 180 SP 3.0, Sopralene 180 SP 3.5, Colphene 180 SP 3.5,

Sopralene Flam 250, Sopralene 250 SP, heat welded

Membrane: One layer Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR

GR, Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180 FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR, Sopralene

Flam 250 FR+ GR, heat welded

Integrity Test: Required, and shall be performed by an approved lab in accordance with ASTM

D5957. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards or traffic surfacing. All defects observed shall be corrected.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and

minimum ½" thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

Maximum Design

Pressure: -292.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck

System Type F(23): Membranes applied directly to substrate with Tile surfacing.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants. Substrate shall be smooth, free of voids, spalled

areas, laitance, honeycombs, and sharp protrusions.

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied to deck at a rate of

100-150 ft²/gal.

Base Sheet: One or more plies of Elastophene Flam or Sopralene Flam 180, Colphene Flam

180, Sopralene Flam 250, heat welded according to manufacturer's application

instruction.

Membrane: Elastophene Flam LS FR GR, Sopralene Flam 180 GR, Colphene Flam 180 GR,

Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam

Antirock or Soprastar Flam heat welded according to manufacturer's application

instruction.

Integrity Test: Required, and shall be performed by an approved lab in accordance with ASTM

D5957. Water maybe maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" and

minimum ½" thickness) tiles shall be embedded into mud-set Portland Cement applied with a ¼" minimum square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

Maximum Design

Pressure: -457.5 psf. (See General Limitation #9)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Terrace/Plaza Deck, Planter, Traffic

System Type F(24): Membranes adhered to primed substrate for Terrace/Plaza Decks, Planters or

Traffic Areas.

All General and System Limitations apply.

Existing Roof: Fully adhered, granule surfaced, SBS modified bitumen.

All surfaces must be dry, smooth, free of depressions, voids, and protrusions, **Substrate** and clean and free of any non-compatible curing compounds, foam release **Preparation:**

agents and other surface contaminants.

Primer: Elastocol 500 or ASTM D 41 primer applied to deck at a rate of 100-150

ft²/gal.

Membrane: Elastophene Flam LS FR GR, Soprastar Flam, Elastophene Flam FR GR,

> Elastophene Flam FR+ GR, Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180 FR GR, Colphene Flam 180 FR GR, Sopralene Flam 180

FR+ GR, Sopralene Flam 250 FR GR, Colphene Flam 250 FR GR or

Sopralene Flam 250 FR+ GR, torch-applied.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an

approved lab. Water may be maintained for a period longer than 24 hours if

required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect

> the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards or traffic surfacing. All defects observed

shall be corrected.

Apply any coating listed in Table 4 above, or any Miami-Dade approved **Surfacing:** (Optional)

coating system. Refer to Underwriters Laboratories or Intertek Testing

Services listings for applicable fire classifications.

Maximum Design

Pressure: -572.5 psf. (See General Limitation #9.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: Min. 2500 psi, dual slab construction (roof plaza and parking decks)

System Type F(25): Membranes applied directly to primed substrate with concrete surfacing.

All General and System Limitations apply.

Substrate All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and

Preparation: clean and free of any non-compatible curing compounds, foam release agents and

other surface contaminants. Substrate shall be smooth, free of voids, spalled

areas, laitance, honeycombs, and sharp protrusions.

Primer: Elastocol 500, Elastocol Stick or ASTM D 41 primer applied to deck at a rate of

100-150 ft²/gal.

Base Sheet: One or more plies of Sopralene Flam 180 or Sopralene Flam 250, heat welded

according to manufacturer's application instruction.

Membrane: Sopralene Flam 180 GR, Colphene Flam 180 GR, Sopralene Flam 180, Sopralene

Flam 250 FR GR, Colphene Flam 250 FR GR or Sopralene Flam Antirock, heat

welded according to manufacturer's application instruction.

Integrity Test: Required, and shall be performed by an approved lab in accordance with ASTM

D5957. Water maybe maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the

waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage

boards and traffic surfacing. All defects observed shall be corrected.

Protection Board

and/or Drainage Layer: (Optional)

nd/or Drainage

Surfacing: Structural Concrete Slab, minimum 2500 psi, in compliance with applicable

Install drainage board over top ply membrane

Building Code.

Maximum Design N/A

Pressure: (Topping concrete slab shall comply with applicable Building Code requirement.)

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GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by SOPREMA. SOPREMA shall supply a list of approved applicators to the authority having jurisdiction.
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as fieldtested, are below 275 lbf. Insulation attachment shall not be acceptable.
- Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
- 11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
- 12. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.

END OF THIS ACCEPTANCE



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